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Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
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Papers in Conferences

1. R Ashena, H Bahreini, A Ghalambor, E Sahraei, M Ahmad Loi Darab ,Investigation of parameters controlling equivalent circulating density ECD in managed pressure drilling MPD ,SPE International Conference and Exhibition on Formation Damage Control ,2022.
2. Askari H., Sahraei E., Tahami A. ,Hydraulic fracturing design and investigation cumulative production in one of Iranian gas condensate reservoirs ,Society of Petroleum Engineers - 72nd European Association of Geoscientists and Engineers Conference and Exhibition ,2010.
3. Taherpour, M., Tabatabaei ,& Nejad, S.A.R., Sahraei, A., Kheirabadi, A ,An Investigation on Gas Injection to Store Gas and Increase (for Storing Gas and Increasing) Well Productivity in Khangiran Gas Field ,SPE 126275, Paper to be presented at the 2009 Kuwait International Petroleum Conference and Exhibition ,2009.
4. Tabatabaei, S.A.R., Sahraei, E., Chahardowli ,Simulation of Dual Porosity Model for Naturally Fractured Reservoirs ,Presented at the 5th International Chem. Eng. Congress, Iran, Kish Island ,کیش 2008,.
5. M. Aghabeigi, S.A.R.Tabatabaei ,& Nejad, E.Sahraei, M. Kalantari ,Effect of Filtering Techniques on Interpretation of Production Log Data ,Presented at the 2th National Iranian Petroleum Engineering Congress ,2008, اهواز.
6. M. Aghabeigi, S. A. R. Tabatabaei ,& Nejad, E. Sahraei ,Using Genetic Alghorithm for Optimization of Well Placement ,Presented at the 12th National Iranian Chemical Engineering Congress ,2008, تبریز.
7. E. Sahraei ,Chemical reactants for creation of revertive emulsions used at intensification of enhanced oil recovery ,Reagent 2004 ",XVII International scientifically – technical conference, ,2004.
8. E. Sahraei ,The rheological performances of revertive emulsions used for intensification of enhanced oil recovery ,second all Russia scientific – practical conf.; Development, production and applying of chemical reactants in oil and gas industry ,2004, مسکو.
9. J. Fathi and E. Sahraei ,Calculation of Equilibrium Gas Composition in a C-H-O Inert System ,National Iranian Chemical Engineering Congress ,1998, اهواز.
10. M. Taheri and E. Sahraei ,Simulation of Electrostatic Precipitators ,International Conference on the

Cement Industry, 1994, تهران.

11. A. R. Tabatabaei and E. Sahraei, Comparison on the Relationship between Parameters of more than ten Cubic Equations of state, First National Iranian Chemical Engineering Congress, 1994, تهران.

12. A. R. Tabatabaei and E. Sahraei, Comparison of Cubic Equations of state in Predicting VLE and Phase Densities of Mixtures of Varying Complexity by Using Regression Equations of state, The First International Conference on Fluid and Thermal Energy Conversion, Indonesia, 1994.

Papers in Journals

1. درگاهی زابلی ملیحه | صحرایی اقبال | پورعباس بهزاد | کرگل برایان، سنتز یک مرحله ای نانوسیلیکای آبگریز با استفاده از الکل زنجیر بلند ۱-اکتادکانول، نشریه مهندسی متالورژی و مواد، ۲۰۱۷.
2. وحید جهانگیری، اقبال صحرایی، سید علیرضا طباطبائی-نژاد، بررسی تاثیر غلظت بسیار بر بازیافت نفت در مدل شن. فشرده، مهندسی شیمی ایران، ۲۰۱۲.
3. و مقایسه فرمول بدست آمده با شبیه سازی ECD حسین بحرینی، اقبال صحرایی، اضافه کردن اثر نرخ نفوذ حفاری به در صنایع شیمیایی، ۲۰۱۱ CFD عددی، سومین کنفرانس ملی کاربرد مهدی شبانی نژاد، اقبال صحرایی، سید شهاب الدین آیت اللهی، خلیل افسری، شبیه سازی فرآیند سیلابزنی مواد فعال کننده سطحی، دوازدهمین کنگره ملی مهندسی شیمی ایران، ۲۰۰۸.
4. محمد طاهرپور، دکتر علیرضا طباطبائی نژاد، دکتر اقبال صحرایی، علی خیر آبادی، بررسی اثر تزریق گاز به منظور ذخیره سازی و افزایش توان تولید چاه ها در یکی از مخازن گاز میعانی کشور، دوازدهمین کنگره ملی مهندسی شیمی ایران، ۲۰۰۸.
5. محمد چهاردولی، سید علیرضا طباطبائی-نژاد، اقبال صحرایی، شبیه-سازی عددی حرکت سیال در مخازن شکافدار نفتی. بر اساس مدل تخلخل دوگانه، دوازدهمین کنگره ملی مهندسی شیمی ایران، ۲۰۰۸.
6. محمد طاهرپور، سید علیرضا طباطبائی-نژاد، اقبال صحرایی، علی خیرآبادی، بررسی اثر تزریق گاز به منظور ذخیره-سازی و افزایش توان تولید چاه-ها در یکی از مخازن گاز میعانی کشور، دوازدهمین کنگره ملی مهندسی شیمی ایران، ۲۰۰۸.
7. محمد دوست محمدی، اقبال صحرایی، سید علیرضا طباطبائی-نژاد، مهدی باقری پور حقیقی، شبیه سازی فرآیند و بهینه سازی حلال تزریقی، دوازدهمین کنگره ملی مهندسی شیمی ایران، ۲۰۰۸ (VAPEX) استخراج توسط بخار حلال اسماعیل فاتحی فر / کیوان نوروزی / صابر مهارتی آذ/ اقبال صحرایی، انتخاب روش بهینه تولید و طراحی واحد نیمه. صنعتی برای تولید نمکهای باریم از سنگ معدن باریت، ششمین کنگره ملی مهندسی شیمی ایران، ۲۰۰۱.
8. اقبال صحرایی، صابر مهارتی آذر نوز، تهیه کلرید و کربنات باریم از سنگ معدن باریت، ششمین کنگره ملی مهندسی شیمی ایران، ۲۰۰۱.
9. سومین، CHOI جمشید فتحی کلجاهی، اقبال صحرایی، محاسبه شرایط تعادلی فاز گاز با کربن در سیستم نامتجانس. کنگره ملی مهندسی شیمی ایران، ۱۹۹۷.
10. A. Khalilnezhad, E. Sahraei, FB Cortes, M. Riazi, Encapsulation of xanthan gum for controlled release at water producer zones of oil reservoirs, Petroleum Science and Technology, 2023.
11. A. Khalilnezhad, E. Sahraei, FB Cortes, M. Riazi, A novel fabrication of microfluidic device for generation of multiple emulsions, Review of Scientific Instruments, 2023.
12. K. Safari, E. Sahraei, A. Khalilnezhad, Application of erucyl dimethyl betaine sulfonate viscoelastic surfactant for optimization of acidizing operations in heterogeneous carbonate reservoirs, Journal of Surfactants and Detergents, 2023.
13. Shabibi, Mohsen, and Eghbal Sahraei, Identification of Water Production Mechanism in One of Iran's Oil Fields and Treat it With Gel Injection, Journal of Chemical and Petroleum Engineering, 2021.
14. M. Sarlak, A. Farbod, S.A. Tabatabaei Nezhad & E. Sahraei, Experimental investigation of CO2 in continuous and water alternating gas injection, Petroleum Science and Technology, 2021.
15. Ghaseminezhad, Hamid, and Eghbal Sahraei, Experimental investigation of foam assisted water alternate gas injection in relation to enhanced oil recovery applications, Petroleum Science and Technology, 2020.
16. Seid Mohammadi, Mohsen, Eghbal Sahraei, and Behrouz Bayati, Gelation studies of high molecular weight polymeric nanoparticles for application in fractured oil reservoirs with harsh conditions, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2020.

19. Sadati, Ehsan Yazdani, Eghbal Sahraei, Milad Rahnema, Sohail Rashidi Aghdam, and Mahsheed Reyhani, The effect of CO₂-enriched water salinity on enhancing oil recovery and its potential formation damage: an experimental study on shaly sandstone reservoirs, *Journal of Petroleum Exploration and Production Technology*, 2020.
20. Mohammadi, Mohsen Seid, Eghbal Sahraei, and Behrouz Bayati, Synthesis optimization and characterization of high molecular weight polymeric nanoparticles as EOR agent for harsh condition reservoirs, *Journal of Polymer Research*, 2020.
21. Seidmohammadi, Mohsen, Eghbal Sahraei, and Behrouz Bayati, Experimental and Theoretical Investigation of Gelation Time of Nanostructured Polymer Gels by Central Composite Approach, *Iranian Journal of Oil and Gas Science and Technology*, 2020.
22. Sadati, Ehsan Yazdani, and Eghbal Sahraei, An experimental investigation on enhancing water flooding performance using oil-in-water emulsions in an Iranian oil reservoir, *Journal of Petroleum Exploration and Production Technology*, 2019.
23. Dargahi, & Zaboli, Maliheh, Eghbal Sahraei, Behzad Pourabbas, and Brian A. Korgel, A simplified synthesis of silica Colloids with tunable hydrophobicity, *Colloid and Polymer Science*, Vol, 2017.
24. Heydari, Omid, Eghbal Sahraei, and Pål Skalle, Investigating the impact of drillpipe's rotation and eccentricity on cuttings transport phenomenon in various horizontal annuluses using computational fluid dynamics (CFD), *Journal of petroleum Science and engineering* Vol, 2017.
25. Safarzadeh, Mohammad Amin, Mehdi Mohammad Salehi, Seyyed Alireza Tabatabaei Nezhad, and Eghbal Sahraei, Experimental investigation of surfactant loss using adsorption tests and evaluation of ultimate oil recovery during surfactant-alternating gas injection, *International Journal of Oil, Gas and Coal Technology*, 2016.
26. Dargahi, & Zaboli, Maliheh, Eghbal Sahraei, and Behzad Pourabbas, Hydrophobic silica nanoparticle-stabilized invert emulsion as drilling fluid for deep drilling, *Petroleum Science* Vol, 2016.
27. Rostamnezhad, Navid, Davood Kahforoushan, Eghbal Sahraei, Saeid Ghanbarian, and Maryam Shabani, A method for the removal of Cu (II) from aqueous solutions by sulfide precipitation employing heavy oil fly ash, *Desalination and Water Treatment*, 2015.
28. Ghanbarian, Saeid, Davood Kahforoushan, and Eghbal Sahraei, Determination of significant factors in the removal of Cu (II) from aqueous solutions by applying adsorption method: using factorial design, *Desalination and Water Treatment*, 2015.
29. Salehi, Mehdi Mohammad, Mohammad Amin Safarzadeh, Eghbal Sahraei, and Seyyed Alireza Tabatabaei Nejad, Comparison of oil removal in surfactant alternating gas with water alternating gas, water flooding and gas flooding in secondary oil recovery process, *Journal of Petroleum Science and Engineering* Vol, 2014.
30. Hosseini, Maryam, Ali Baradar Khoshfetrat, Eghbal Sahraei, and Sirous Ebrahimi, Continuous nitrifying granular sludge bioreactor: influence of aeration and ammonium loading rate, *Process safety and environmental protection*, Vol, 2014.
31. Hosseini, Dastgerdi, Zeinab, Seyyed Ali Reza Tabatabaei, Nejad, Eghbal Sahraei, and Hojjat Nowroozi, Morphology and size distribution characterization of precipitated asphaltene from live oil during pressure depletion, *Journal of Dispersion Science and Technology*, 2014.
32. Safarzadeh, Mohammad Amin, Seyyed Alireza Tabatabaei Nezhad, Eghbal Sahraei, and Mehdi Mohammad Salehi, An Experimental Examination of Adsorption Phenomenon in Foam-assisted Water Alternative Gas: The Effect of Injection Rate, *Iranian Journal of Oil and Gas Science and Technology*, 2014.
33. Khodapanah, Elnaz, Hamed Nejatian Daraei, and Eghbal Sahraei, Oil Recovery by Steam-CO₂-Foam Flooding: Combination of CO₂-Foam Flooding and Steam Injection as a Novel Enhanced Oil Recovery (EOR) Method in Heavy Oil Reservoirs, In *Offshore Technology Conference-Asia. Offshore Technology Conference*, 2014.
34. Mehdi Mohammad Salehi, Mohammad Amin Safarzadeh, Eghbal Sahraei and Seyyed Alireza Tabatabaei Nejad, Experimental study of surfactant alternating gas injection versus water alternating

gas and water flooding enhanced oil recovery methods, *Journal of Petroleum and Gas Engineering*, 2013.

35. A. Zohoorparvaz, A. Arastoo & E. Sahraei, The Evaluation of Water-in-Oil Emulsions to Use as a Water Control Agent in Waterflooding, *Journal: Petroleum Science and Technology*, 2013.

36. Maryam Hosseini, Ali Baradar Khoshfetrat, Eghbal Sahraei, Sirous Ebrahimi, Continuous Nitrifying Granular Sludge Bioreactor: Influence of Aeration and Ammonium Loading Rate, *Process Safety and Environmental Protection*, In Press, 2013.

37. Maryam Hosseini, Eghbal Sahraei, Ali Baradar Khoshfetrat, Sirous Ebrahimi, Nitrate and Nitrite Removal Using a Continuous Heterotrophic Denitrifying Granular- Sludge Bioreactor, *Journal: Chemical Engineering & Technology*, 2013.

38. Zeinab Hoseini, Dastgerdi, Seyyed Ali Reza Tabatabaei, Nejad, Eghbal Sahraei, "Asphaltene nanoaggregates characterization in live oil using SEM and AFM, (Oral Presentation), 2013.

39. Mehdi Mohammad Salehi, Eghbal Sahraei and Seyyed Alireza Tabatabaei Nejad, Experimental study of new improved oil recovery from heavy and semi-heavy oil reservoirs by implementing immiscible heated surfactant alternating gas injection, *Journal of Petroleum and Gas Engineering*, 2013.

40. A. H. Zarifi, E. Sahraei & H. Parvizi, Pseudo Relative Permeability Compensation for Numerical Dispersion, *Journal: Petroleum Science and Technology*, 2012.

41. Safarzadeh, M.A., Tabatabaei, & Nejad, S.A.R., Sahraei, E., Experimental Investigation of the Effect of Calcium Lignosulfonate on Adsorption Phenomenon in Surfactant Alternative Gas Injection, *Journal of Chemical and Petroleum Engineering*, 2012.

42. A. H. Zarifi, E. Sahraei & H. Parvizi, Analysis of Grid Blocks Orientation Effects on Simulation Results in Horizontally Bended Formation Using New Grid Blocks Model, *Journal: Petroleum Science and Technology*, 2010.

43. E. Sahraei, New bio polymeric composition for selective water insulation of wells, *Petroleum engineering and Gas*, 2004.

44. E. Sahraei, Creation of complex revertive emulsions for treating water flooding, *Petroleum dispersible systems Materials III of the international symposium*, 2004.

45. E. Sahraei, Reception of revertive emulsions for intensification of enhanced oil recovery, *Youth scientist of oil and gas complex "Gubkin State University of Oil and Gas"*, 2004.

46. A. Khodief, A. Emami and E. Sahraei, Production of Faujasite Zeolite from Perlite, *Bako*, 2000.